

SWBAT: measure amplitude and wavelength

Jan 4-7:20 AM

# Welcome!!!

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SECA Physics  
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- \* Pick up:
  - blue concept sheet
  - worksheet
  - slip of paper (for later)

Centering



## Opening Questions:

If a drummer bounces her sticks at 10 Hz, what is the period of each bounce?

$$T = \frac{1}{f} = \frac{1}{10} \text{ sec}$$

If a light blinks once every 10 seconds, what is the frequency of the blinks?

$$f = \frac{1}{T} = \frac{1}{10\text{s}} = .1 \text{ Hz}$$

Sep 7-7:04 AM

## Concept Sheet

~ 7 rows when we're done...

We'll fill in two terms (rows) today.

Concept	Meaning	Sym- bol	Units	Picture
FREQUENCY	HOW MANY PER UNIT OF TIME $\text{FREQ} = \frac{\#}{\text{TIME}}$	$f$ $f = \frac{1}{T}$	hertz $\text{Hz} = \frac{1}{\text{sec}}$	
PERIOD	HOW MUCH TIME FOR ONE. $\text{PERIOD} = \frac{\text{TIME}}{\#}$	$T$ $T = \frac{1}{f}$	seconds sec.	
TRANSVERSE:	WHEN THE MEDIUM VIBRATES <u>ACROSS</u> THE DIRECTION THE WAVE TRAVELS.			
LONGITUDINAL:	WHEN THE MEDIUM VIBRATES <u>ALONG</u> THE DIRECTION THE WAVE TRAVELS.			
AMPLITUDE	HOW FAR FROM THE MIDDLE.	$A$	meters m	
WAVELENGTH	HOW FAR FOR ONE "BACK & FORTH"	$\lambda$	meters m	

Feb 18-6:50 AM

## Experiments:

Half in here, half working in the hallway.

We'll switch after ~10 minutes

[http://www.youtube.com/watch?v=P-Umre5Np\\_0](http://www.youtube.com/watch?v=P-Umre5Np_0)

<http://www.ngsir.netfirms.com/englishhtm/SpringSHM.htm>


Apr 12-7:13 AM

What did we find?

Apr 15-6:36 AM

### Daily 3 Questions

CP: No homework

- \* Every day except test/project days
- \* 3 Questions on the topics of the day
- \* Main source of daily points
- \* I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1) AMPLITUDE means how wide from the middle.

2) The units for measuring wavelength are

A) seconds

B) Hertz

C) meters

3) What does the symbol  $\lambda$  stand for?

WAVELENGTH

Apr 12-7:15 AM